

Work Group Meeting for Bathroom & Tile Cleaner, General Purpose Cleaner, General Purpose Degreaser, and Glass Cleaner

May 30, 2019



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Work Group Outline

Category Presentations

- Category Definition
- Regulatory Activity
- Category Overview
 - Companies
 - Products
 - VOC Content
 - Product Weighted Maximum Incremental Reactivity (PWMIR)
- Product Groups
- Speciation Breakdown
- Possible VOC Thresholds
 - Regulatory Pathways
- Discussion and Questions

What's Next?

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Bathroom & Tile Cleaner (aerosol)

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Bathroom & Tile Cleaner

“Bathroom and Tile Cleaner” means a product designed or labeled to clean tile or surfaces in bathrooms. “Bathroom and Tile Cleaner” does not include “Toilet/Urinal Care Product.”

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Bathroom & Tile Cleaner (aerosol)

- Regulation Activity
 - 7% VOC, effective January 1, 1994

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Category Overview

Number of Companies

• 11

Number of Products

• 101

Category VOC Range

• 1% – 7%

SWA-VOC

• 6.02%

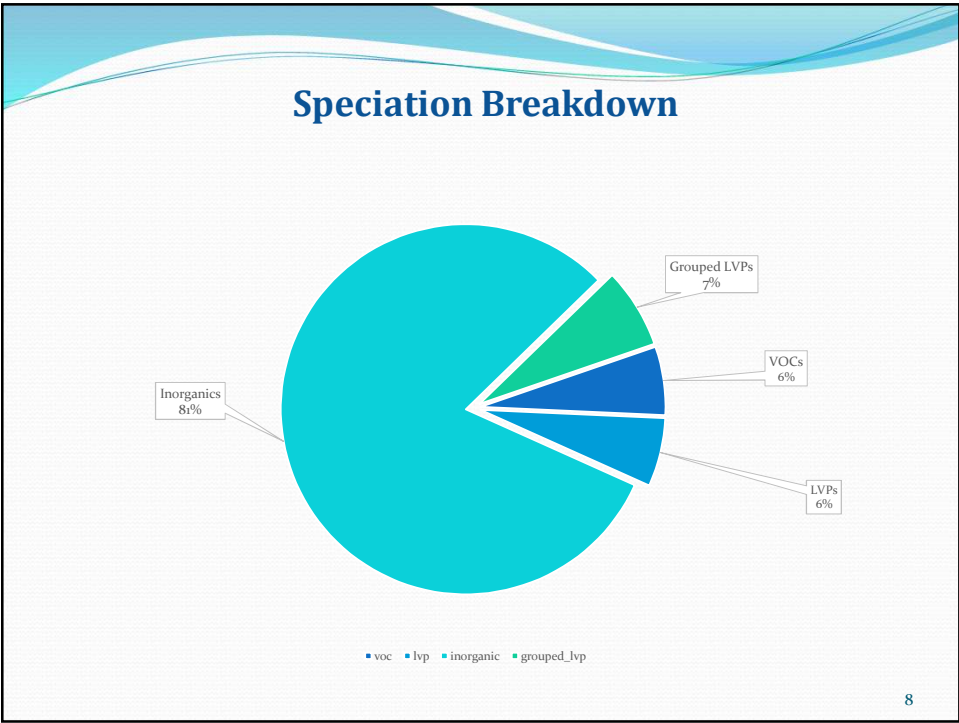
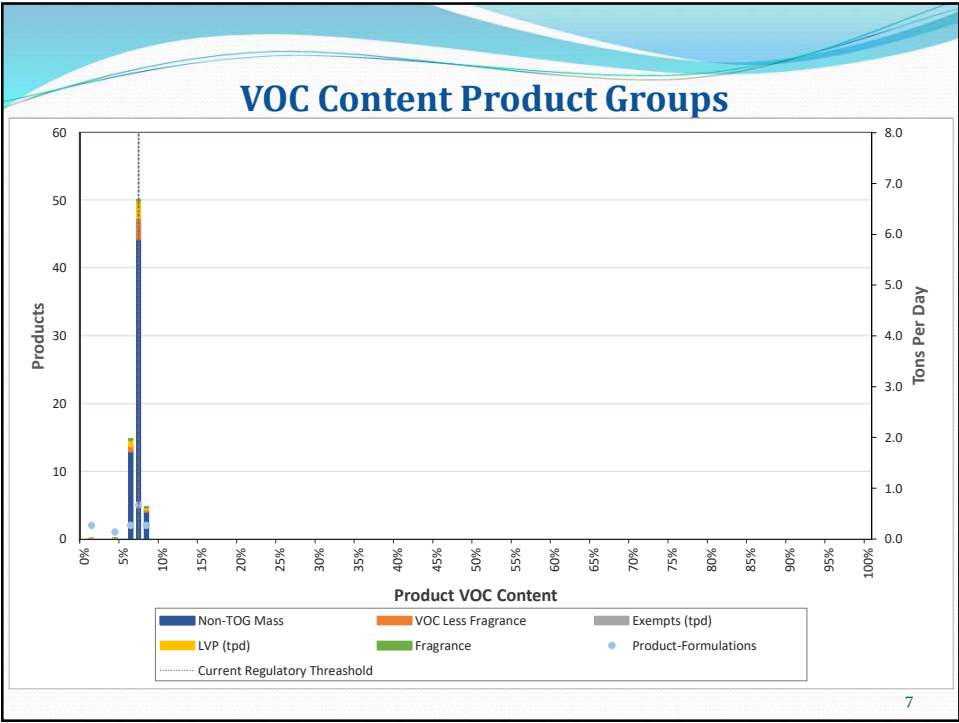
SWA-PWMIR

• 0.21

VOC Mass (tpd)

• 0.56

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Possible VOC Thresholds

Possible VOC Limit	6%	5%
VOC Tons Per Day Reduced	0.06	0.14
Complying Market Share (Product-Formulations)	42%	25%
Complying Market Share (Mass)	21%	< 1%

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Discussion & Questions

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General Purpose Cleaner (nonaerosol)

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General Purpose Cleaner

- (B) for products manufactured on or after January 1, 2015: a product that is designed or labeled to clean hard surfaces in homes, garages, patios, commercial, or institutional environments. "General Purpose Cleaner" includes products that clean kitchens, sinks, appliances, counters, walls, cabinets or floors, and products that claim to clean a variety of similar surfaces such as plastics, stone or metal. "General Purpose Cleaner" does not include "Single Purpose Cleaner" or "Furniture Maintenance Product."

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General Purpose Cleaner (nonaerosol)

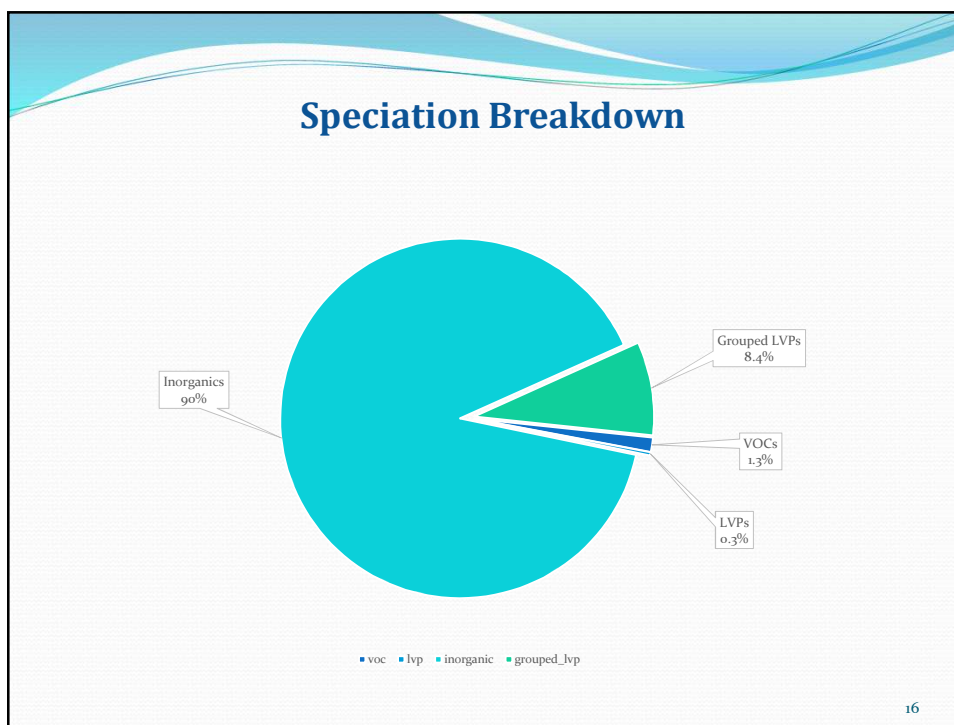
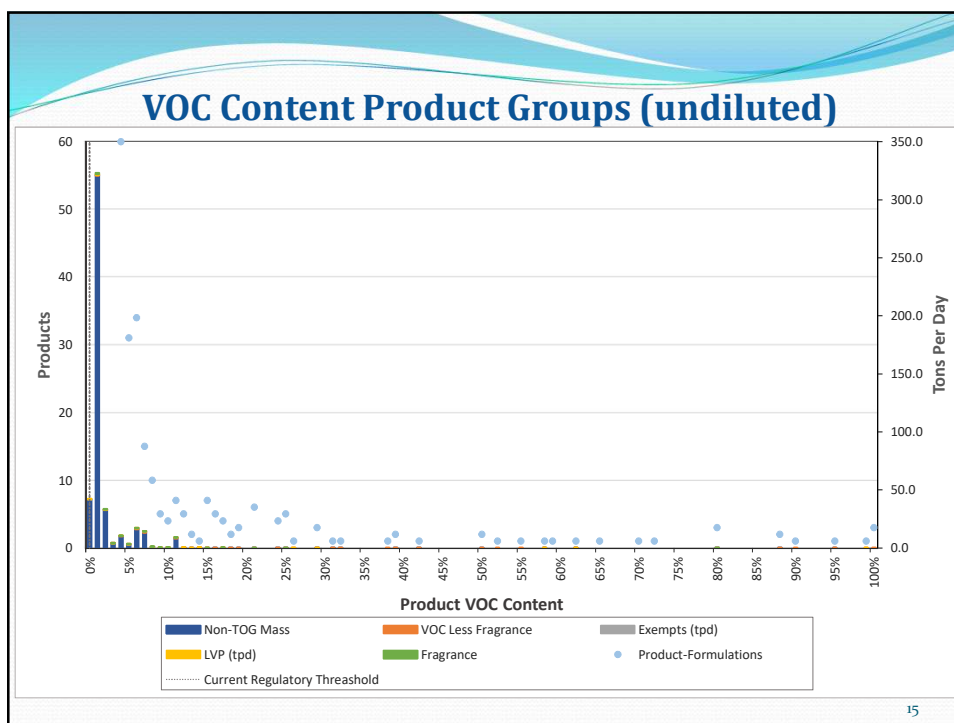
- Regulation Activity
 - 4% VOC, effective December 31, 2004
 - 0.5% VOC, effective December 31, 2012

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Category Overview

Number of Companies	• 246
Number of Products	• 3760
Category VOC Range (undil.)	• 0% – 100%
SWA-VOC (undil.)	• 1.20%
SWA-PWMIR (undil.)	• 0.06
VOC Mass (tpd)	• 5.51

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Specified Monoterpenes Guidance

- Guidance Document to clarify applicability of fragrance exemption
- Limonenes and Pine Oils were not considered “grouped fragrance” in previous rulemakings
- VOC limits were adopted with Limonenes and Pine Oils NOT being considered fragrance in categories of cleaners or degreasers
- Adopted VOC limits preserved citrus scented and pine scented cleaning and degreasing products
- We will address as part of upcoming rulemaking

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Rulemaking Options to Address Monoterpenes

For general purpose cleaners and degreasers:


1. Confirm that specified monoterpenes are not considered fragrance; or
2. Reduce the fragrance exemption, with allowance for monoterpenes; or
3. Eliminate the fragrance exemption, and slightly increase the VOC limit; or
4. Other approaches?

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Discussion & Questions

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General Purpose Degreaser (nonaerosol)

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General Purpose Degreaser

- (C) for products manufactured on or after January 1, 2015: any product that is designed or labeled to remove or dissolve grease, grime, oil or other oil-based contaminants from a variety of substrates, including automotive or miscellaneous metallic parts. "General Purpose Degreaser" does not include "Adhesive Remover," "Electrical Cleaner," "Electronic Cleaner," "Energized Electrical Cleaner," "Engine Degreaser," "General Purpose Cleaner," "Metal Polish or Cleanser," "Oven or Grill Cleaner," or "Single Purpose Degreaser." "General Purpose Degreaser" also does not include products used exclusively in "solvent cleaning tanks or related equipment," or products that are (A) exclusively sold directly or through distributors to establishments which manufacture or construct goods or commodities; and (B) labeled exclusively for "use in the manufacturing process only." "Solvent cleaning tanks or related equipment" includes, but is not limited to, cold cleaners, vapor degreasers, conveyorized degreasers, film cleaning machines, or products designed to clean miscellaneous metallic parts by immersion in a container.

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General Purpose Degreaser (nonaerosol)

- Regulation Activity
 - 4% VOC, effective December 31, 2004
 - 0.5% VOC, effective December 31, 2012

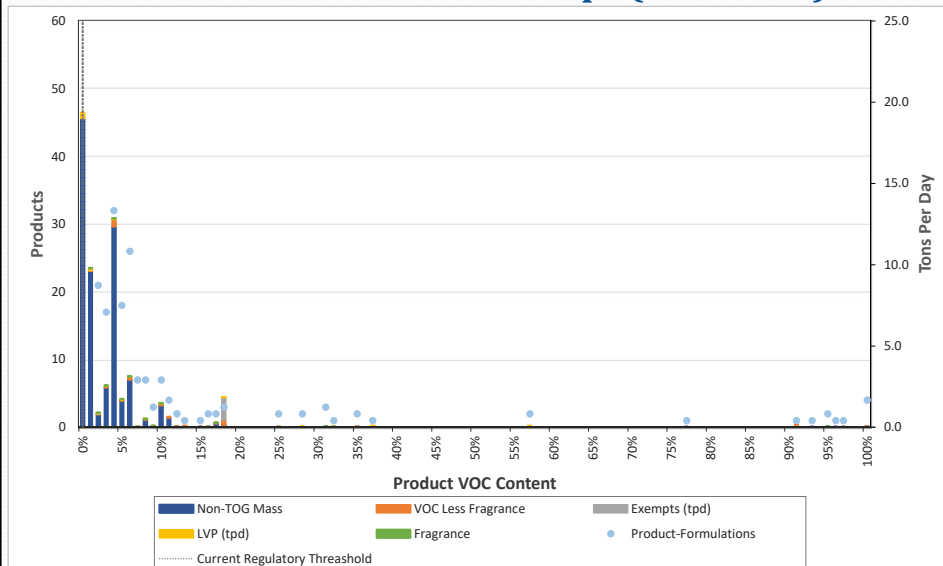
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Category Overview

Number of Companies	• 113
Number of Products	• 936
Category VOC Range (undil.)	• 0% – 100%
SWA-VOC (undil.)	• 1.19%
SWA-PWMIR (undil.)	• 0.05
VOC Mass (tpd)	• 1.78

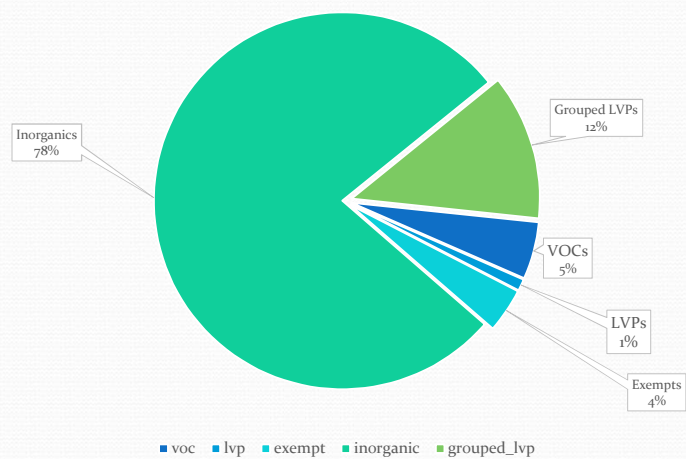
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VOC Content Product Groups (undiluted)



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Speciation Breakdown



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Discussion & Questions

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Glass Cleaner (aerosol)

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Glass Cleaner (aerosol)

“Glass Cleaner” means a product designed or labeled primarily for cleaning surfaces made of glass. “Glass Cleaner” does not include products designed or labeled solely for the purpose of cleaning optical materials used in eyeglasses, photographic equipment, scientific equipment and photocopying machines.

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Glass Cleaner (aerosol)

- Regulation Activity
 - 12% VOC, effective January 1, 1993
 - 10% VOC, effective December 31, 2012

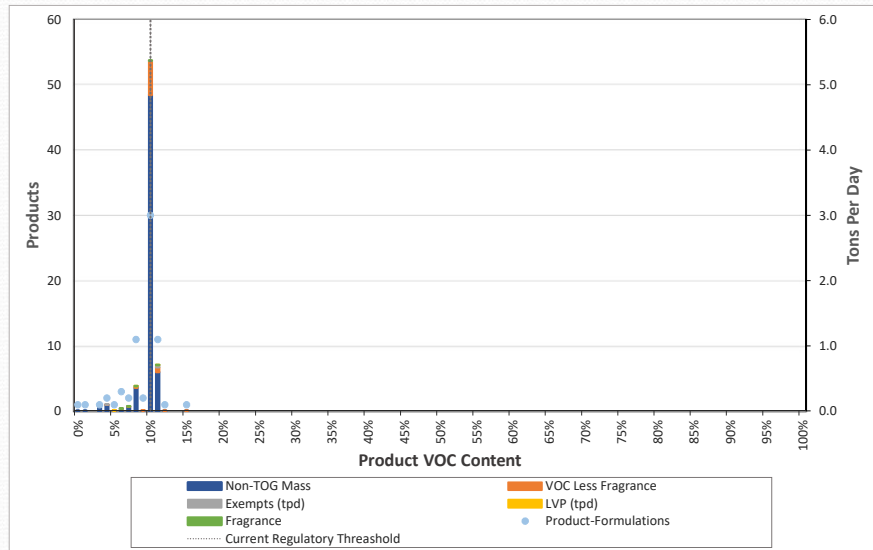
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Category Overview

Number of Companies	• 65
Number of Products	• 129
Category VOC Range	• 0% – 14.7%
SWA-VOC	• 9.46%
SWA-PWMIR	• 0.16
VOC Mass (tpd)	• 0.64

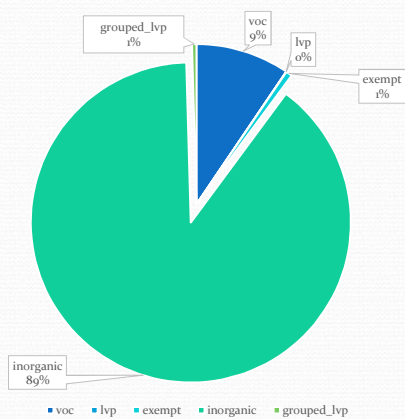
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VOC Content Product Groups



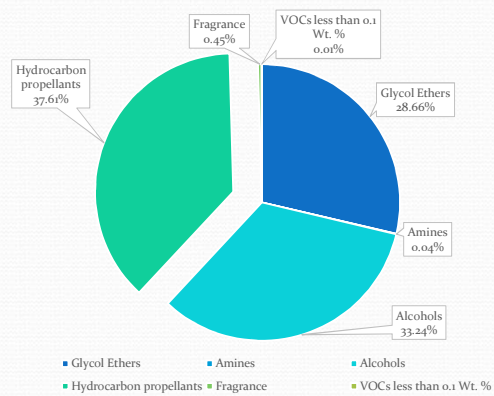
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Speciation Breakdown



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VOC Breakdown



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Possible VOC Thresholds

Possible VOC Limit	8%	7%	5%
VOC Tons Per Day Reduced	0.12	0.18	0.31
Complying Market Share (Product-Formulations)	33%	16%	9%
Complying Market Share (Mass)	10%	4%	3%

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Discussion & Questions

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What's Next?

- Spring-Summer 2019: Topic-specific Workgroups
- Summer 2019: 2nd topic-specific Workgroups
- Fall 2019: Public workshop to identify and quantify emissions benefits of regulatory options
- Late 2019/Early 2020: Additional public workshop(s) as needed
- Ongoing: Meet with interested stakeholders
- Late 2020: Proposed regulatory amendments for Board consideration

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Consumer Products Program Contacts

- Josh Berghouse, Rulemaking Lead Staff
 - Email: josh.berghouse@arb.ca.gov
 - Phone: (916) 324-8174
- Joe Calavita, Manager Implementation Section (Rulemaking)
 - Email: joe.calavita@arb.ca.gov
 - Phone: (916) 445-4586
- Nicholas Berger, (Bathroom & Tile Cleaner), (General Purpose Cleaner), (General Purpose Degreaser)
 - Email: nicholas.berger@arb.ca.gov
 - Phone: (916) 327-1516
- Robert Barrera, (Glass Cleaner)
 - Email: robert.barrera@arb.ca.gov
 - Phone: (916) 324-9549
- Listserv signup
 - <https://public.govdelivery.com/accounts/CARB/subscriber/new>
 - Enter your email and check "Consumer Products Program"

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